Fall 2018 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

MA0004	Overall LMA	Total LMA						
Sacramento Maintenance Yard	Rating	Miles						
Maintenance Area 0004	Α	3.47						
Rated Item		Maintena	nce Deficiency		Enforc	ement	Design 8 Obsole	
Rated item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Vegetation					0.01			
Encroachments	0.03		0.03	0.86%	0.24	0.05		
Animal Control	0.01		0.01	0.29%				
Slope Stability	0.04		0.04	1.15%				
Supplemental								
DWR UCIP Field Study					0.04			
LMA Totals:	0.08	0.00	0.08	2.30%	0.29	0.05	0.00	0.00
Unit No. 01 Sacramento River RB	Overall Unit Rating	Total Unit Miles						
Unit No. 01 Sacramento River RB MA0004								
MA0004	Rating	Miles 3.47	nce Deficiency		Enforc	ement	Design & Obsole	
	Rating	Miles 3.47	nce Deficiency M + 4U Miles	Threshold %	Enforce M Miles	ement U Miles		
MA0004	Rating A	Miles 3.47 Maintena		Threshold %			Obsole	scence
MA0004 Rated Item	Rating A	Miles 3.47 Maintena		Threshold %			Obsole	scence
MA0004 Rated Item Earthen Levee	Rating A	Miles 3.47 Maintena		Threshold %	M Miles		Obsole	scence
Rated Item Earthen Levee Vegetation	A M Miles	Miles 3.47 Maintena	M + 4U Miles		M Miles	U Miles	Obsole	scence
Rated Item Earthen Levee Vegetation Encroachments	A M Miles	Miles 3.47 Maintena	M + 4U Miles 0.03	0.86%	M Miles	U Miles	Obsole	scence
Rated Item Earthen Levee Vegetation Encroachments Animal Control	A M Miles 0.03 0.01	Miles 3.47 Maintena	0.03 0.01	0.86% 0.29%	M Miles	U Miles	Obsole	scence
Rated Item Earthen Levee Vegetation Encroachments Animal Control Slope Stability	A M Miles 0.03 0.01	Miles 3.47 Maintena	0.03 0.01	0.86% 0.29%	M Miles	U Miles	Obsole	scence

Winter **

Flood Control Project Maintenance Levee Inspections

LMA District Cover Sheet

Fall 2018 Levee Inspection Results

Sacramento Maintenance Yard Maintenance Area 0004

Summer **

Spring

	(March - May)	(June - August)	(September - November)	(December - February)
† Overall LMA Rating (Fall Only)			A	
*	* Non-receipt of Summ Reports may effect o			
† SPRING INSPECTIONS: Overall maintenance deficiencies are rated FALL INSPECTIONS: The overall maintenar within the attached un	using the same crite	ria in the spring and i	in the fall.	ficiencies identified
Comments				

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Sacramento Maintenance Yard Maintenance Area 0004

l	Waterway	Bank	Unit Miles
	Unit No. 01 Sacramento River	Right	3.47

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			Α	
Date of Inspection	4/27/2018 - 4/27/2018		10/25/2018 - 10/25/2018	
DWR Inspector	Zach Jojola		Luz Dial	
Accompanied By	Life Kelley DWR			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	10/25/2018 10/25/2018	Luz Dial

LM Start		Rating **	Α	Issue No.		9	
LM End		Issue Type +	Ма	Location *			
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory			Start		End		
Operations & Maintenance Manuals		nce		٥		0	
					٥		0
DWR ID	DWR_MA0	004_01_s _ 201	3_9				
		Comn	nent Coo	de			
		Inspecto	or Comm	nent			
The Sacra	mento Mai	ntenance Yar	d has co	pies of thei	ir O8	&M manuals.	

No Photos

LM Start		Rating **	Α	Issue No.		10	
LM End		Issue Type +	Ma	Location *			
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item		y Supplies &			0		0
item	Equipment				0		0
DWR ID	DWR_MA0004_01_s _ 2013_10						
	Comment Code						

No Photos

Inspector Comment

The Sacramento Maintenance Yard has a stockpile of flood response material.

	LM Start		Rating **	Α	Issue No.		11	
	LM End		Issue Type +	Ma	Location *			
	Category	Earthen L	GPS La	atitud	le/Longitude			
	Catogory				Start		End	
	Item	Flood Pre	paredness &	Training		0		0
						0		0
	DWR ID	DWR_MA0	004_01_s _ 201	13_11				
			Comn	nent Cod	le			
			Inspecto	or Comm	ent			

The Sacramento Maintenance Yard has a written flood response plan

No Photos

* Location

and flood response training.

LS : Land Side N/A: Not Applicable WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	10/25/2018 10/25/2018	Luz Dial

LM Start	0.00	Rating **	M	Issue No.	16		
LM End	0.00	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS L	atitud	e/Longitude	
Calegory				Start		End	
Slope Stability				38.5968	323°	38.596823	
пеш				-121.547608 °		-121.547608	
DWR ID	DWR_MA0	004_01_s _ 201	16_16				
		Comn	nent Cod	de			
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.							
		Inspecto	or Comm	nent			
	4						

Photo 1 of 1: FA_2018_MA0004_298_16_20180919_00009.jpg



View of the slope stability on the waterward side of the levee looking downstream. Spring 2016.

LM Start	0.15	Rating **	A/W	Issue No. 6			
LM End	0.15	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory			Start		End		
Item	Slope Sta	bility		38.5966	54°	38.596654°	
item			-121.5447	91 °	-121.544791 °		
DWR ID	DWR_MA0	004_01_f _ 201	8_6		·		
Comment Code							
DWR ID DWR_MA0004_01_f _ 2018_6							

S2: Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comment

Monitor footpath.

No Photos

LM Start	0.22	Rating **	С	Issue No.	8			
LM End	0.22	Issue Type +	Ма	Location *	CR			
Category	Category Earthen Levee				GPS Latitude/Longitude			
Category				Start		End		
Item	Trim / Thin Trees			38.59702	24°	38.597024	۰	
пеш				-121.54368	33°	-121.543683	0	
DWR ID	DWR_MA0	004_01_f _ 201	7_8					
	Comment Code							

T1: Trim trees to at least five feet above ground level.

No Photos

Inspector Comment

* Location + Issue Type Ma : Maintenance Deficiency
Ob : Design & System Obsolescence LS: Land Side N : Not Inspected/Rated N/A: Not Applicable A : Acceptable M : Minimally Acceptable WS: Water Side C : Corrected A/W : Acceptable but Monitor & Maintain U : Unacceptable En: Enforcement

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	10/25/2018 10/25/2018	Luz Dial

LM Start	0.24	Rating **	U	Issue No.		2	
LM End	0.24	Issue Type +	En	Location *	ion * CR		
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory	ategory			Start		End	
Item	Encroachments			38.5971	93°	38.597193°	
item				-121.5434	21 °	-121.543421 °	
DWR ID	DWR_MA0	004_01_s _ 201	12_2				
Comment Code							
FE : Fence)						

Inspector Comment

This is the USACE yard and the chain link fence crosses the levee. The fence runs the length of the yard on the crown.



View of the fence blocking access on the crown of the levee looking downstream. Fall 2015.

LM Start	0.41	Rating **	U	Issue No.		15		
LM End	0.41	Issue Type +	En	Location *		CR		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Encroachments			38.5986	61°	38.598661 °		
item			-121.5408	95°	-121.540895 °			
DWR ID	DWR_MA0	004_01_f _ 201	6_15					
		Comn	nent Cod	de				
BU : Buildi	ng							
		Inspecto	or Comm	nent				
Chain link fence crosses the levee. USACE facility.								
	·							



View of fence crossing the crown on NE side of USACE facility. Fall 2016.

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	10/25/2018 10/25/2018	Luz Dial

2.02	Rating **	М	Issue No.		14		
2.21	Issue Type +	En	Location *		LS		
Earthen L	evee		GPS La	atitud	e/Longitude		
			Start		End		
Encroachments			38.5998	13°	38.597533 °		
				78°	-121.513134°		
DWR_MA0	004_01_s _ 201	7_14					
	Comn	nent Cod	de				
)							
	Inspecto	or Comm	nent				
A fence runs along the toe of the landside levee							
	2.21 Earthen L Encroachi DWR_MA0	2.21 Issue Type + Earthen Levee Encroachments DWR_MA0004_01_s _ 201 Comn	2.21 Issue Type + En Earthen Levee Encroachments DWR_MA0004_01_s _ 2017_14	2.21 Issue Type + En Location *	2.21 Issue Type + En Location * Earthen Levee GPS Latitud Start Encroachments 38.599813 ° -121.513978 ° DWR_MA0004_01_s _ 2017_14 Comment Code Inspector Comment		



View of the fence running along the toe of the landward side of the levee looking downstream. Fall 2015.

LM Start	2.12	Rating **	A/W	Issue No.		18	
LM End	2.12	Issue Type +	Ма	Location *		WS	
Category Earthen Levee			GPS La	atitud	le/Longitude		
Calegory	egory			Start		End	
Item	Animal Co	Animal Control			13°	38.598613°	
item				-121.5130	12°	-121.513012°	
DWR ID	DWR_MA0	004_01_f _ 201	5_18				
Comment Code							
A3 : No rodents visible, but rodent burrows visible; need to backfill and							

compact or grout burrows.

Inspector Comment

Backfill animal holes that have reappeared.

Photo 1 of 1: FA_2018_MA0004_298_18_20180919_00010.jpg



Updated view of animal holes on WS slope. Fall 2016.

LM Start	2.15	Rating **	М	Issue No.		19
LM End	2.15	Issue Type +	Ма	Location *		CR
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Category				Start		End
Item	Encroachi	ments		38.5981	81°	38.598181 °
item					62 °	-121.512862°
DWR ID DWR_MA0004_01_s _ 2018_19						
		Comn	nent Cod	de		
TR : Tree	or limb					
		Inspecto	or Comm	nent		
Tree limbs still on the crown.						



View of tree limbs on the crown. Spring 2018.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	10/25/2018 10/25/2018	Luz Dial

LM Start	2.18	Rating **	A/W	Issue No.		13	
LM End	2.18	Issue Type +	Ма	Location *	LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Erosion / I	Bank Caving		38.5979	32°	38.597932 °	
пеш				-121.5128	87°	-121.512887°	
DWR ID	DWR_MA0	004_01_s _ 201	15_13				
		Comn	nent Cod	de			
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spec	ction.	
		Inspecto	or Comn	nent			

LM Start	2.18	Rating **	A/W	Issue No.	13 (cont)
LM End	2.18	Issue Type +	Ма	Location *	LS



Runoff erosion is on the shoulder of the landward side. Spring 2016.

Photo 2 of 2: FA_2018_MA0004_298_13_20180919_00006.jpg



Perspective view of the runoff erosion on the landward side of the levee looking upstream. Spring 2016.

LM Start	2.56	Rating **	М	Issue No.	29		
LM End	2.56	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Category		Start		End			
ltem Encroachments				38.5926	54°	38.592654	0
Item				-121.5119	13°	-121.511913	0
DWR ID	DWR_MA0	004_01_s _ 201	18_29				
		Comn	nent Cod	de			
TR : Tree	or limb						
		Inspecto	or Comm	nent			
Tree limb still on levee slope.							

No Photos

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	10/25/2018 10/25/2018	Luz Dial

LM Start	2.57	Rating **	М	Issue No.		26	
LM End	2.57	Issue Type +	Ма	Location *		WS	
Category	Earthen Levee			GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Encroachments			38.5924	48 °	38.592448 °	
пеш				-121.511825°		-121.511825°	
DWR ID	DWR_MA0	004_01_f _ 201	7_26				
		Comn	nent Cod	de			
TR : Tree	or limb						
	Inspector Comment						
Large falle	n tree brar	nch still on wa	terside s	lope.			

No Photos

LM Start	2.63	Rating **	М	Issue No.		20
LM End	2.63	Issue Type +	Ma	Ma Location *		LS
Category Earthen Levee				GPS La	titud	e/Longitude
Calegory	n y			Start		End
Item	Animal Co	ontrol		38.5915	32°	38.591532°
item				-121.5116	46°	-121.511646°
DWR ID	DWR_MA0	004_01_f _ 201	6_20			

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

The rodents have been exterminated, but the hole needs to be backfilled.

Photo 1 of 1 : FA_2018_MA0004_298_20_20180919_00012.jpg



Large diameter animal burrows on LS slope. Fall 2016.

LM Start	2.65	Rating **	A/W	Issue No.		22
LM End	2.65	Issue Type +	Ma	Location *		LS
Category Earthen Levee				GPS Latitude/Longitude		
Calegory				Start		End
Item	Slope Sta	bility		38.5913	80°	38.591380°
item				-121.5113	45°	-121.511345°
DWR ID	DWR MAO	004 01 f 201	5 22			

Comment Code

S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comment

Material has been added to build the slope back up, however the path is still active. Recommend monitoring.

Photo 1 of 1 : FA_2018_MA0004_298_22_20180919_00014.jpg



View looking upstream of the depression on the landward side of the levee due to foot trafffic. Fall 2015.

*Location
LS: Land Side N/A: Not Applicable
WS: Water Side
CR: Crown

** Rating
A: Acceptable
N: Not Inspected/Rated
N: Not Inspected/Rated
M: Minimally Acceptable
C: Corrected
U: Unacceptable
AW: Acceptable but Monitor & Maintain
En: Enforcement

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	10/25/2018 10/25/2018	Luz Dial

LM Start	2.67	Rating **	М	Issue No.		21
LM End	2.68	Issue Type +	En	Location *		LS
Earthen Levee			GPS La	atitud	e/Longitude	
Category				Start		End
Item	Vegetation				28°	38.591080°
пеш				-121.5111	30°	-121.510994°
DWR ID	DWR_MA0	004_01_f _ 201	6_21			
		Comn	nent Cod	de		
V6 : Lands	caping					
		Inspecto	or Comm	nent		



Rating ** Issue No. 2.69 М 30 LM Start 2.69 Issue Type + Location * LM End Supplemental GPS Latitude/Longitude Category Start End DWR UCIP Field Study 38.590910° 38.590910° Item -121.510830° -121.510830° 19405 DWR ID

Comment Code

Inspector Comment

FS_ID:41443 DS_ID:19405 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Found during the field survey, not listed in the desk

study.

FIELD_STRUCT_DESC: 6-inch steel sewer line from the public facility

of the boat launching area. No other details available.

FS Date: 9/12/2012

Photo 1 of 2: UCIP_FA_2018_41443_9371.jpg



Landside view- manhole on the side of the levee and a road.

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	10/25/2018 10/25/2018	Luz Dial

LM Start	2.69	Rating **	М	Issue No.		30 (cont)
LM End	2.69	Issue Type +	En	Location *		
Category	ental	GPS Latitude/Longitude				
Calegory						End
Item	DWR UCI	P Field Study		38.5909	10°	38.590910°
пеш			-121.5108	30°	-121.510830°	
DWR ID	19405					·

Inspector Comment

Comment Code

FS_ID:41443 DS_ID:19405 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Found during the field survey, not listed in the desk

FIELD_STRUCT_DESC: 6-inch steel sewer line from the public facility

of the boat launching area. No other details available.

FS Date: 9/12/2012



Waterside view- public facility in the background.

LM Start	2.70	Rating **	M	Issue No.		17
LM End	2.70	Issue Type +	Ма	Location *		LS
Category Earthen Levee				GPS Latitude/Longitude		
Category	Salegory					End
Item	Slope Sta	bility		38.5908	02°	38.590802°
пеш				-121.5107	36°	-121.510736°
DWR ID DWR_MA0004_01_f _ 2018_17						

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Repair slope damage from vehicular traffic bypassing gate. Recommend placement of a barrier.

Photo 1 of 1: FA_2018_MA0004_298_17_20181029_00029.jpg



View of slope damage from vehicular traffic bypassing gate. Fall 2018

CR : Crown

A: Acceptable Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiency Ob : Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	10/25/2018 10/25/2018	Luz Dial

LM Start	2.77	Rating **	М	Issue No.	31		
LM End	2.77	Issue Type +	En	Location *			
Category				GPS Latitude/Longitude			
Calegory				Start End			
Item	DWR UCI	P Field Study		38.59014	0°	38.590140°	
пеш			-121.50975	0°	-121.509750°		
DWR ID	ID 19406						
	Comment Code						

Inspector Comment

FS_ID:41485 DS_ID:19406 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Found during field survey. Not listed in the desk study. FIELD_STRUCT_DESC: 1 of 2: 3-inch wrapped galvanized iron (GI) water pipe through the levee, at an unknown depth. Pipe daylights in a metal cage box. Valve box for the pipe is also found.

FS Date: 9/12/2012

LM Start	2.77	Rating **	М	Issue No.	31 (cont)
LM End	2.77	Issue Type +	En	Location *	



Landside overview

Photo 2 of 3: UCIP_FA_2018_41485_9366.jpg



Waterside view- pipe daylight in a metal cage.

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	10/25/2018 10/25/2018	Luz Dial

LM Start	2.77	Rating **	М	Issue No. 31 (cont)		31 (cont)	
LM End	2.77	Issue Type +	En	Location *			
Category	Supplemental				GPS Latitude/Longitude		
Calegory			Start		End		
Item	DWR UCIP Field Study			38.5901	40°	38.590140°	
пеш			-121.5097	50°	-121.509750°		
DWR ID	ID 19406						
Comment Code							

Inspector Comment

FS_ID:41485 DS_ID:19406 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Found during field survey. Not listed in the desk study. FIELD_STRUCT_DESC: 1 of 2: 3-inch wrapped galvanized iron (GI) water pipe through the levee, at an unknown depth. Pipe daylights in a metal cage box. Valve box for the pipe is also found.

FS Date: 9/12/2012



Waterside view- a manhole/control valve box.

LM Start	2.81 Rating ** M		М	Issue No.		25	
LM End	2.81	Issue Type +	Ma	Location *		WS	
Category	Cotogon/ Earthen Levee				GPS Latitude/Longitude		
Category		Start		End			
Item	Slope Stability			38.5898	34°	38.589834°	
пеш				-121.5091	10°	-121.509110°	
DWR ID DWR_MA0004_01_f _ 2018_25					·		

Comment Code

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Repair slope damage from vehicular traffic.

Photo 1 of 1 : FA_2018_MA0004_298_25_20181029_00030.jpg



View of slope damage from vehicular traffic. Fall 2018

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	10/25/2018 10/25/2018	Luz Dial

LM Start	2.82	Rating **	М	Issue No.	lo. 32		
LM End	2.82	Issue Type +	En	Location *	ation *		
Category	ental	GPS Latitude/Longitude					
Calegory		Start		End			
Item	DWR UCIP Field Study			38.59013	80°	38.590130°	
пеш		-121.50874	o°	-121.508740 °			
DWR ID	WR ID 19407						
Comment Code							

Inspector Comment

FS_ID:41486 DS_ID:19407 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Found during field survey, not listed in the desk study. FIELD_STRUCT_DESC: 2 of 2: 5-inch wrapped galvanized iron (GI) water pipe through the levee, at an unknown depth. Pipe daylights in a metal cage box. Valve box for the pipe is also found.

FS Date: 9/12/2012

LM Start	2.82	Rating **	М	Issue No.	32 (cont)
LM End	2.82	Issue Type +	En	Location *	



Waterside view- pipe daylight in a cage.

Photo 2 of 2: UCIP_FA_2018_41486_9368.jpg



Waterside view- manhole/control valve.

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	10/25/2018 10/25/2018	Luz Dial

LM Start	2.91 Rating ** A/W		Issue No.		24	
LM End	2.91	Issue Type +	Ma	Location *		WS
Catagoria Earthen Levee				GPS Latitude/Longitude		
Category			Start		End	
Item	Slope Stability			38.5889	37°	38.588937°
пеш			-121.5079	20°	-121.507920°	
DWR ID	DWR_MA0			·		
Comment Code						

S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comment

Footpath on landside slope. Recommend monitoring.



View looking downstream of the slope stability issue due to foot traffic on the waterward side of the levee . Fall 2015.

LM Start	2.92	Rating **	U	Issue No.	23		
LM End	2.95	Issue Type +	En	Location *	LS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory			Start		End		
Item	Encroachments			38.5887	62 °	38.588384°	
пеш				-121.5079	51 °	-121.507894°	
DWR ID DWR_MA0004_01_f _ 2016_23							
Comment Code							

FE : Fence

Inspector Comment

Photo 1 of 1 : FA_2018_MA0004_298_23_20180919_00015.jpg



View of fence on LS slope. Fall 2016.

LM Start	2.92	Rating ** M		Issue No.		28	
LM End	2.92	Issue Type +	Ma	Location *		WS	
Category	Catagoria Earthen Levee				GPS Latitude/Longitude		
Category	niegory					End	
Item	Slope Stability			38.5887	40°	38.588740°	
пеш				-121.5078	94°	-121.507894°	
DWR ID	/R ID DWR_MA0004_01_f _ 2018_28						
Comment Code							
S2 : Repair the levee slope damaged by foot traffic and prevent access							

S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comment

Repair slope damage/caving due to foot traffic.



View of slope damage from foot traffic. Fall 2018

* Location		** Rating		+ Issue Type
LS: Land Side	N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS: Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	10/25/2018 10/25/2018	Luz Dial

LM Start	2.93	2.93 Rating ** M				33
LM End	2.93	Issue Type +	En	Location *		
Category			GPS Latitude/Longitude			
Calegory				Start		End
Item	DWR UCIP Field Study			38.5886	88°	38.588688°
item			-121.5079	10°	-121.507910°	
DWR ID	18883					

Comment Code

Inspector Comment

FS_ID:41557 DS_ID:18883 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Abandoned 7-inch pipe found. Needs to be

abandoned properly.

FIELD_STRUCT_DESC: *ABANDONED* 2 of 4: 7-inch pipe of an unknown material or purpose through the levee, 18.6 feet below the crown. Unable to locate. Pipe exposed and extends 10 feet from the bank and 5 feet above current water surface. Needs to be removed or grouted. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 116, August 1955, (RM 59.65)].

FS Date: 9/12/2012

LM Start	2.93	Rating **	М	Issue No.	33 (cont)
LM End	2.93	Issue Type +	En	Location *	



Land side view- Water tower area.

Photo 2 of 3: UCIP_FA_2018_41557_9770.jpg



Land side view- abandoned pipes inside the tower area

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	10/25/2018 10/25/2018	Luz Dial

LM Start	2.93	Rating **	М	Issue No.		33 (cont)
LM End	2.93	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR UC	IP Field Study		38.58868	88°	38.588688 °
пеш				-121.50791	0 °	-121.507910 °
DWR ID	18883					

Inspector Comment

Comment Code

FS_ID:41557 DS_ID:18883 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Abandoned 7-inch pipe found. Needs to be

abandoned properly.

FIELD_STRUCT_DESC: *ABANDONED* 2 of 4: 7-inch pipe of an unknown material or purpose through the levee, 18.6 feet below the crown. Unable to locate. Pipe exposed and extends 10 feet from the bank and 5 feet above current water surface. Needs to be removed or grouted. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 116, August 1955, (RM 59.65)].

FS Date: 9/12/2012



Land side view- abandoned pipes inside the tower area.

LM Start	3.08	Rating **	A/W	Issue No.		12
LM End	3.45	Issue Type +	En	Location *		WS
Catagonia Earthen Levee			GPS Latitude/Longitude			
Category	У			Start		End
Vegetation ltem			38.5864	34°	38.581349°	
item				-121.5080	90°	-121.509547°
DWR ID	DWR_MA0	004_01_s _ 201	12_12			·

Comment Code

V6: Landscaping

Inspector Comment

West Sacramento's River walk runs from Tower Bridge to the I Street bridge.

Photo 1 of 2: FA_2018_MA0004_298_12_20180919_00003.jpg



The Riverwalk is part of the landscape on the levee. Fall 2015.

Levee Inspection Report By Mile - Fall 2018

Sacramento Maintenance Yard Maintenance Area 0004

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	3.47	10/25/2018 10/25/2018	Luz Dial

LM Start	3.08	Rating **	A/W	Issue No.		12 (cont)
LM End	3.45	Issue Type +	En	Location *		WS
Earthen Levee			GPS Latitude/Longitude			
Category				Start		End
Item	Vegetatio	Vegetation			34°	38.581349°
пеш				-121.5080	90°	-121.509547°
DWR ID DWR_MA0004_01_s _ 2012_12						
		Comn	nent Cod	de		
V6 : Lands	caping					
Inspector Comment						
West Sacramento's River walk runs from Tower Bridge to the I Street bridge.						

Photo 2 of 2: FA_2018_MA0004_298_12_20180919_00004.jpg

Landscaping and buildings are on the crown and waterward side of the levee. Fall 2015.

LM Start	3.24	Rating **	М	Issue No.		27
LM End	3.29	Issue Type +	En	Location *	LS	
Category	Cotogonia Earthen Levee			GPS La	atitud	le/Longitude
Category				Start		End
Item	Encroachi	ments		38.5841	68°	38.583435 °
item				-121.508632 °		-121.508785 °
DWR ID	DWR ID DWR_MA0004_01_f _ 2015_27					
	Comment Code					
FE : Fence	FE : Fence					
Inspector Comment						
There is a fence at the levee shoulder.						

Μ

En

Rating **

Issue Type +

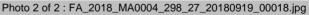
ude		
nd		
583435	0	
508785	0	
		Vi

LS

Photo 1 of 2 : FA_2018_MA0004_298_27_20180919_00017.jpg	J
09/17/2018	,
View looking downstream of the fence on the crown of the levee. F	- a

iew looking downstream of the fence on the crown of the levee . Fall 2015.

27 (cont)





View looking downstream of the inside of the fence . Fall 2015.

* Location	
LS: Land Side	N/A: Not Applicable
WS: Water Side	

LM Start

LM End

3.24

3.29

A : Acceptable M : Minimally Acceptable U : Unacceptable

Issue No.

Location *

N : Not Inspected/Rated C : Corrected

+ Issue Type Ma: Maintenance Deficiency Ob : Design & System Obsolescence En: Enforcement